

Purpose is to see how long it takes for heat to transfer through different % of SAP.

Added weights of 7g used. boiled H₂O from drinking dispenser of Dixie

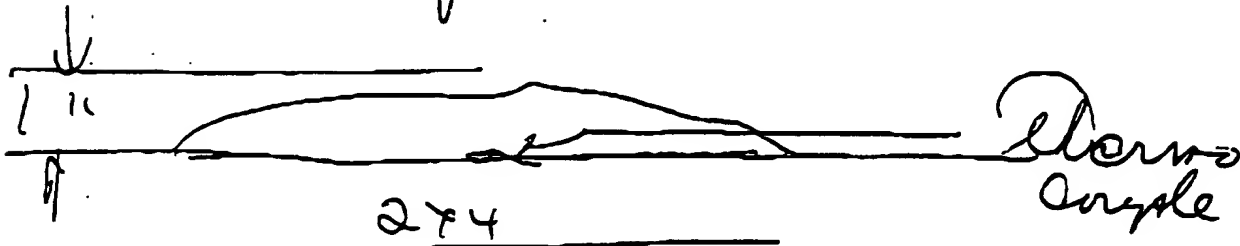
Time increase 2%

1 70
2 70
5 70
8 70
10 70
10 70
15 70

40 sec
1 min 20 sec
2 min +
2 min +
2 min +
2 min +
2 min +

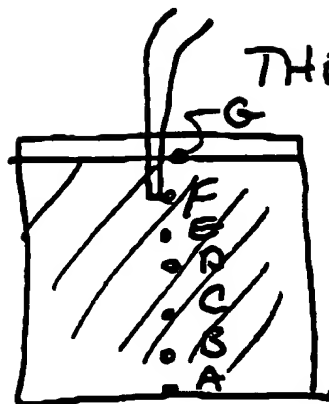
Not + means did not increase temp.

Repeated burn experiment with
5 different SA samples. Do not
know info of SA. They were supplied
to Sep for diaper test.



Thermo Couple	Time
21°C	
21°C	
22.2°C	15 sec
24.16	30 "
27.5	45 "
30.1	60 "
33.2	75 "
36.7	90 "
38°C	105 "
	120 "

Repeat has different temperature
Very sensitive to location of torch.
Blow torch - Max temp
under 45°C.



THERMO INPUT

DEACER 200 ml

LIQUID H₂O / SA (just before beer
a slurry).

Slurry heated
for 15 minutes.

A	98°C
B	60°C
C	22°C
D	21°C
E	21°C
F	21°C
G	21°C

Slurry heated
for 30 minutes

A	98°C
D	97°C
C	96°C a 40°C (movement)
B	28°C
F	27°C
E	23°C
G	21°C

200ml of antifreeze replaces 200ml
of H₂O in slurry.
Slurry heated
for 15 minutes

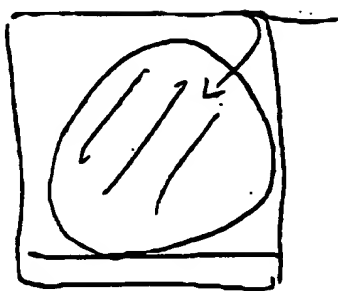
A	99°C
B	93°C
C	94°C
D	25°C
E	29°C 20°C 25°C ↔
F	26°C
G	21°C

270	SAC	1 pt
370	"	"
470	"	"
570	"	"

Subjects cups sealed & frozen
in freezer of rats (for)

See evaporator rate of water in
frozen state.

Solvent fire



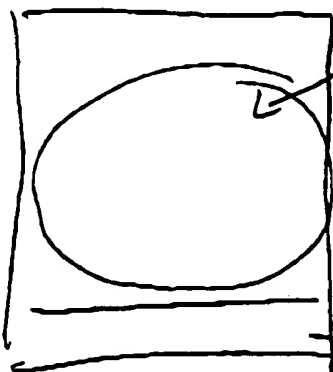
slurry

large coffee can

2 starter fluid $\frac{1}{2}$ "

adding slurry SA/H₂O. caused solvent to seep to top & burn on top of slurry.

seper H₂O + SA (probe up)
foam.

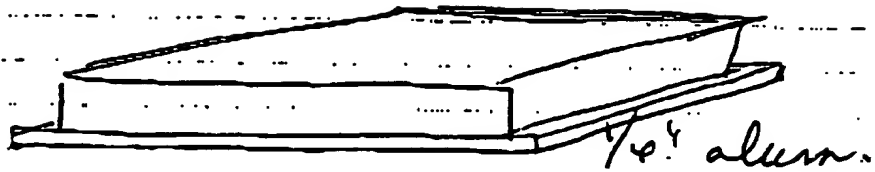


foam + SA slurry

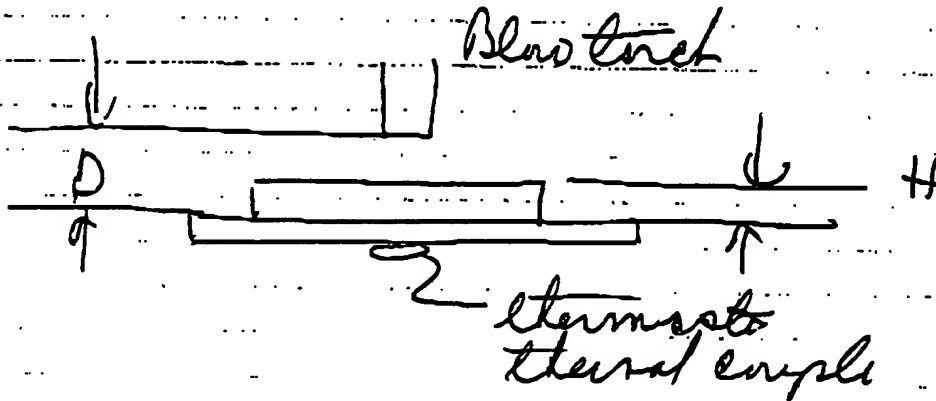
large coffee can

starter fluid $\frac{1}{2}$ "

fire was not extinguished.



adding different levels of SAP and
to determine thickness of any charge.



H.

0.1 "
0.2 "
0.3 "
0.4 "
0.5 "
0.6 "
0.7 "
0.8 "
0.9 "
1.0 "

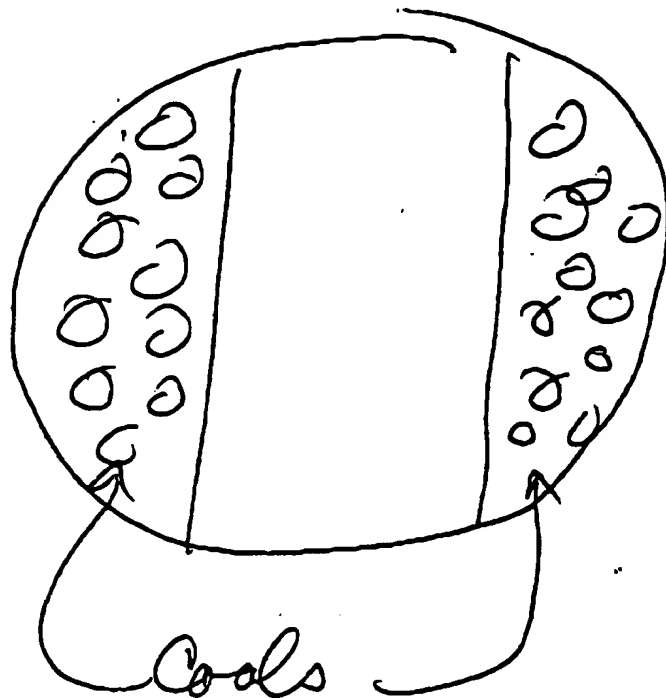
DT after 1 min stabilization
8 minutes seconds.

0
0

Need to redefine DT

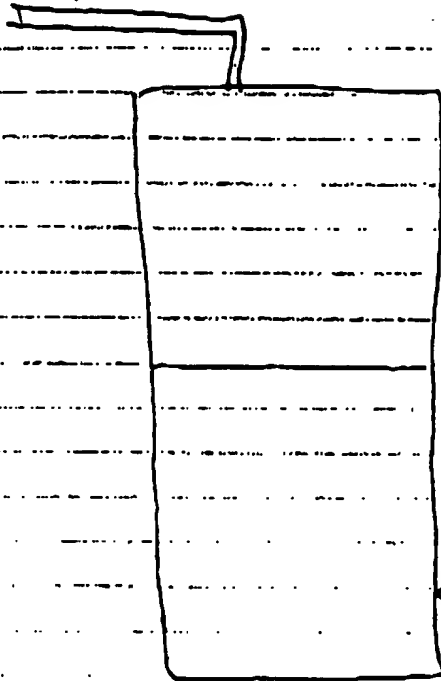
Barbque grill

Weber Kettle.



- 1) Tilled to top Coals brought to Cherry red
 - 2) Poured 1 liter H_2O (42 liter) on each side of top of coals
coals removed, burners & did go completely to ashes
 - 3) SA (light slurry) very liquid.
 - 4) Poured 42 liter in each side.
 - 5) Only area where NO slurry. dead coals burn. Others died out. Next day white powder on top of coals.
- NOTE: Coals were able to be used again without NO other conditions.

Pump to 80 PSI



2 years

fire extinguisher

← 1/2 filled
70 gal.

stored to see if it will
activate after 2 years.